

EXPLANATION

<p>LITHOLOGY</p> <p>CLAY</p> <p>CLAYEY SILT</p> <p>SANDY SILTY CLAY TO SANDY CLAYEY SILT</p> <p>CLAYEY SILTY SAND</p> <p>VERY FINE FINE MEDIUM COARSE VERY COARSE SAND</p> <p>PEBBLES</p> <p>PALEOSOLS</p> <p>SHELLS</p> <p>TURRITELLA</p> <p>LIGNITIC MATERIAL</p> <p>INDURATED LAYER (GENERALLY CALCITE CEMENTED)</p> <p>BURROWED CONTACT</p> <p>SHARK TOOTH</p>	<p>SP SPONTANEOUS POTENTIAL LOG—Negative to the left, positive to the right</p> <p>SPR SINGLE-POINT RESISTANCE LOG—Resistance increases to the right</p> <p>MPR MULTIPOINT RESISTIVITY LOG—16- and 64-inch multipoint resistivity log</p> <p>N FORAMINIFERA NEOGENE ZONE</p> <p>P FORAMINIFERA PALEOGENE ZONE</p> <p>AZ ASSEMBLAGE ZONE</p> <p>x DIATOM SAMPLE</p> <p>+ DINO-CYST SAMPLE</p> <p>< POLLEN SAMPLE</p>
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1 Lithology shown is a generalized summary based on cored intervals. Dismal Swamp continuously cored down to -950 ft, and cored from -1,040 to -1,080 ft. Fentress continuously cored down to -1,109 ft, and cored from -1,275 to -1,375 ft and from -1,682 to -1,852 ft.

2 Gibson, T., formerly USGS, now with Smithsonian Institution, written commun., 1990

3 Frederiksen, N., USGS, written commun., 1999

4 Andrews, G., USGS, written commun., 1989

5 Edwards, L., USGS, written commun., 1989

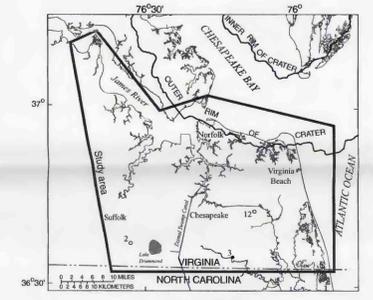
6 Cronin, T., USGS, written commun., 1995

7 Potomac Member

8 Paspotansa Member

9 Extrapolated from regional correlation including strontium isotope data.

10 Lithology shown is a generalized summary based on a combination of lithic and geophysical data from several boreholes at the Northwest River Water Treatment Plant (WTP) site. Multipoint (16- and 64-inch) and spontaneous potential (SP) logs come from borehole 3 (61A15). The gamma log comes from borehole 61A18. Cuttings descriptions from borehole 61A15 and 61A18 were used from the surface down to -990 ft. Core descriptions from borehole 61A16 were used from -990 to -1,524 ft. Drillers logs from borehole 61A2 were also used, especially for the interpretation shown for the base of the Tertiary. The geophysical logs guided a very generalized interpretation from -1,524 to -1,769 ft.



EXPLANATION
3 Borehole and number 2 Continuous corehole and number
Location map of coreholes and borehole

STRATIGRAPHIC COLUMNS OF THREE KEY BOREHOLES

By
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